



Canadian Food  
Inspection Agency

Agence canadienne  
d'inspection des aliments

## Canadian Food Inspection Agency



### **Our vision:**

To excel as a science-based regulator, trusted and respected by Canadians and the international community.

### **Our mission:**

Dedicated to safeguarding food, animals and plants, which enhances the health and well-being of Canada's people, environment and economy.

## ***CFIA Update on the *S. noctilio* program in Canada***

## ***Sirex Program Update and Industry Outreach Meeting, Annapolis, Maryland January 9, 2007***

***Loretta Shields, A/ Forestry Network Specialist, Ontario area  
Canadian Food Inspection Agency***

# Outline of Presentation

Canadian surveys for *S. noctilio*  
in 2005/2006

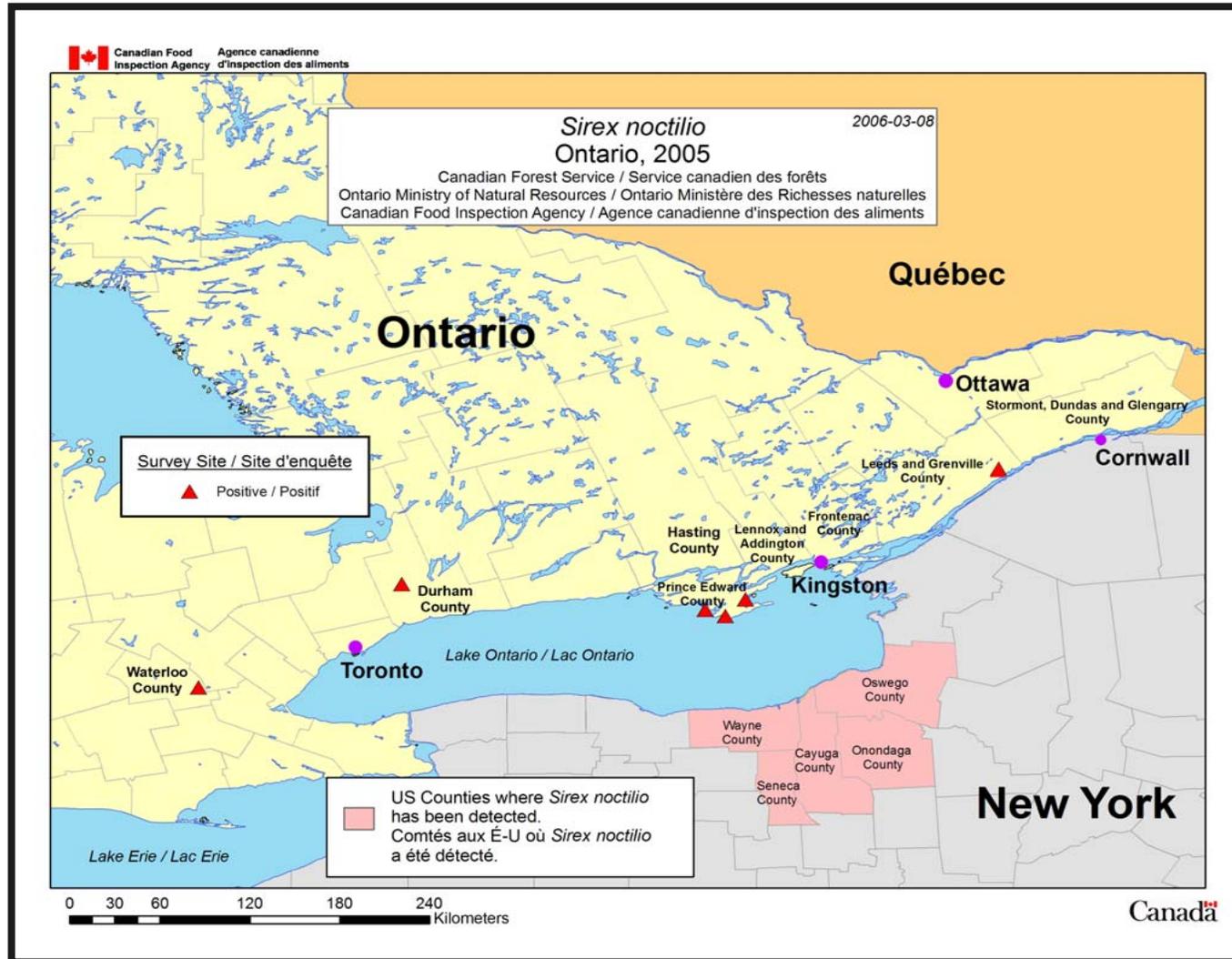
Research

Outreach

Recommendations



# 2005 survey for *S. noctilio*



## 2006 survey for *S. noctilio*

Surveys for Ontario and Quebec were contracted out to the Ontario Ministry of Natural Resources and the Ministère des Ressources Naturelles, et de la Faune et des Parcs du Québec

Protocol developed by CFS and CFIA in collaboration with the Ontario and Quebec ministries

CFIA initiated additional surveys for *S. noctilio* in New Brunswick and Nova Scotia

## 2006 survey for *S. noctilio*



IPM panel traps and 12-unit Lindgren funnel traps were deployed

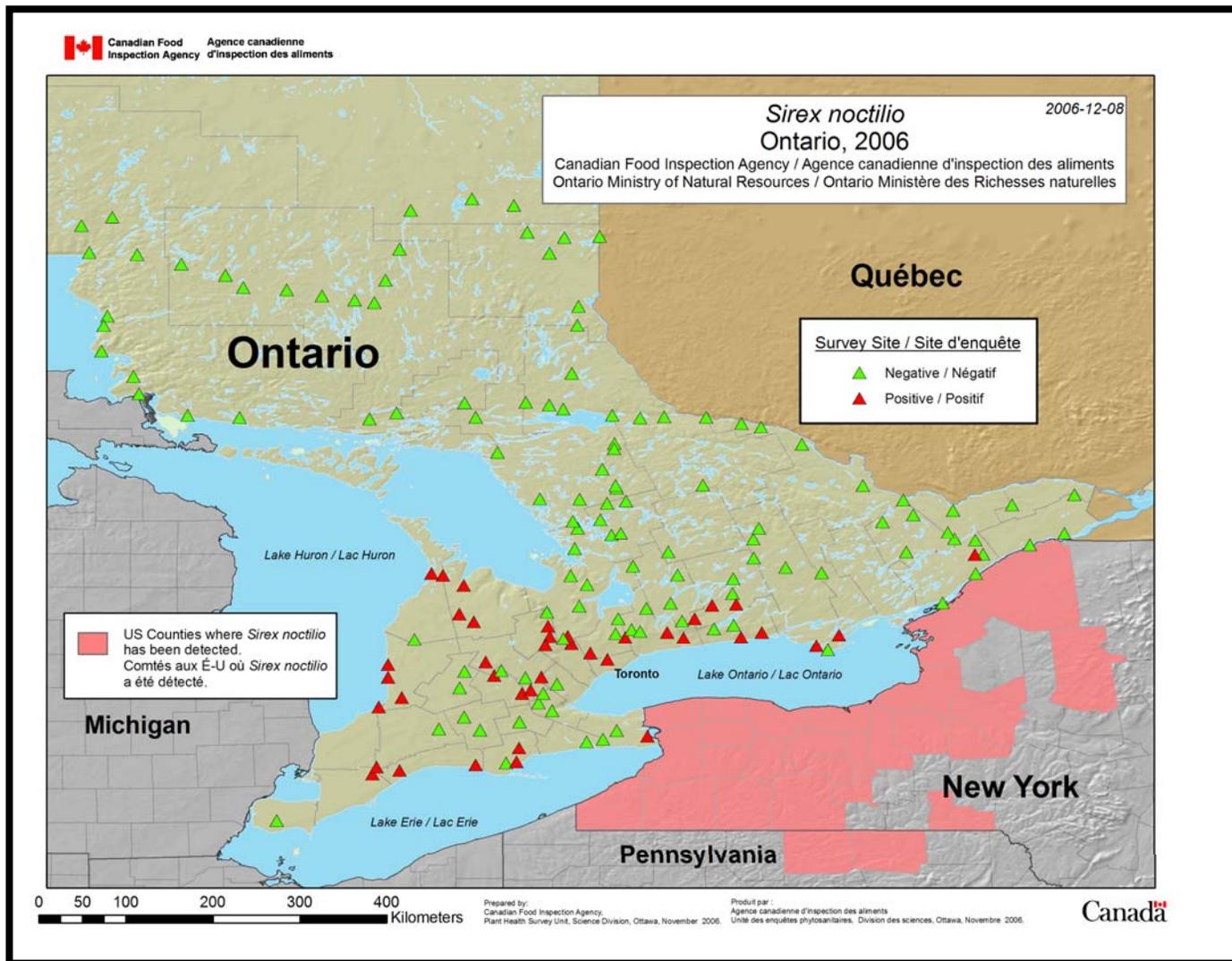


## 2006 survey for *S. noctilio*

Province	Number of survey locations	Number of Positive Trap Sites
Ontario	158	37
Quebec	156	0
Nova Scotia	10	0
New Brunswick	10	0



# 2006 survey for *S. noctilio* - Ontario



# 2006 survey for *S. noctilio* – Ontario survey Facts

- 158 sites surveyed in Ontario
- 32,000 km travelled to set up and service these sites
- Over 1200 samples were collected
- 24 staff involved in the survey (OMNR and CFS)
- 37 sites disclosed positive of *S. noctilio*



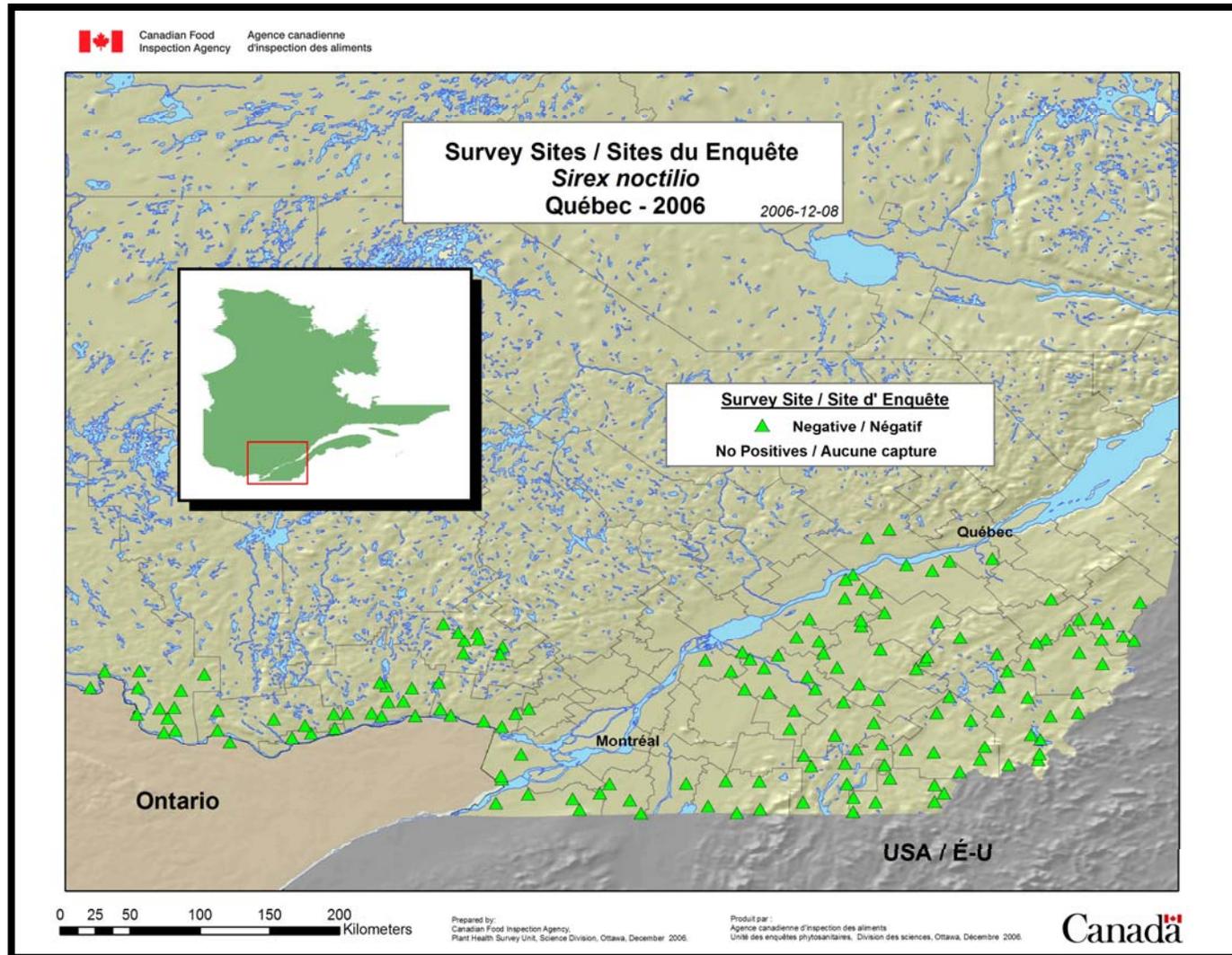
# 2006 survey for *S. noctilio* - Ontario

Species	Qty	First Catch	Last Catch
<i>Sirex noctilio</i>	74	12 July	10 October
<i>Sirex behrensii</i>	12	20 September	12 October
<i>Sirex edwardsii</i>	28	5 September	13 October
<i>Sirex juvencus</i>	26	8 August	4 October
<i>Sirex nigricornus</i>	264	5 September	13 October
<i>Tremex columba</i>	17	19 July	11 October
<i>Urocerus albicornis</i>	5	21 July	9 August
<i>Urocerus cressoni</i>	132	12 July	28 September
<i>Urocerus taxodi</i>	1*	4 August	
<i>Xerus spectrum</i>	4	7 July	1 August

Traps deployed last week of June, first week of July, taken down by 13 October



# 2006 survey for *S. noctilio* – Quebec results

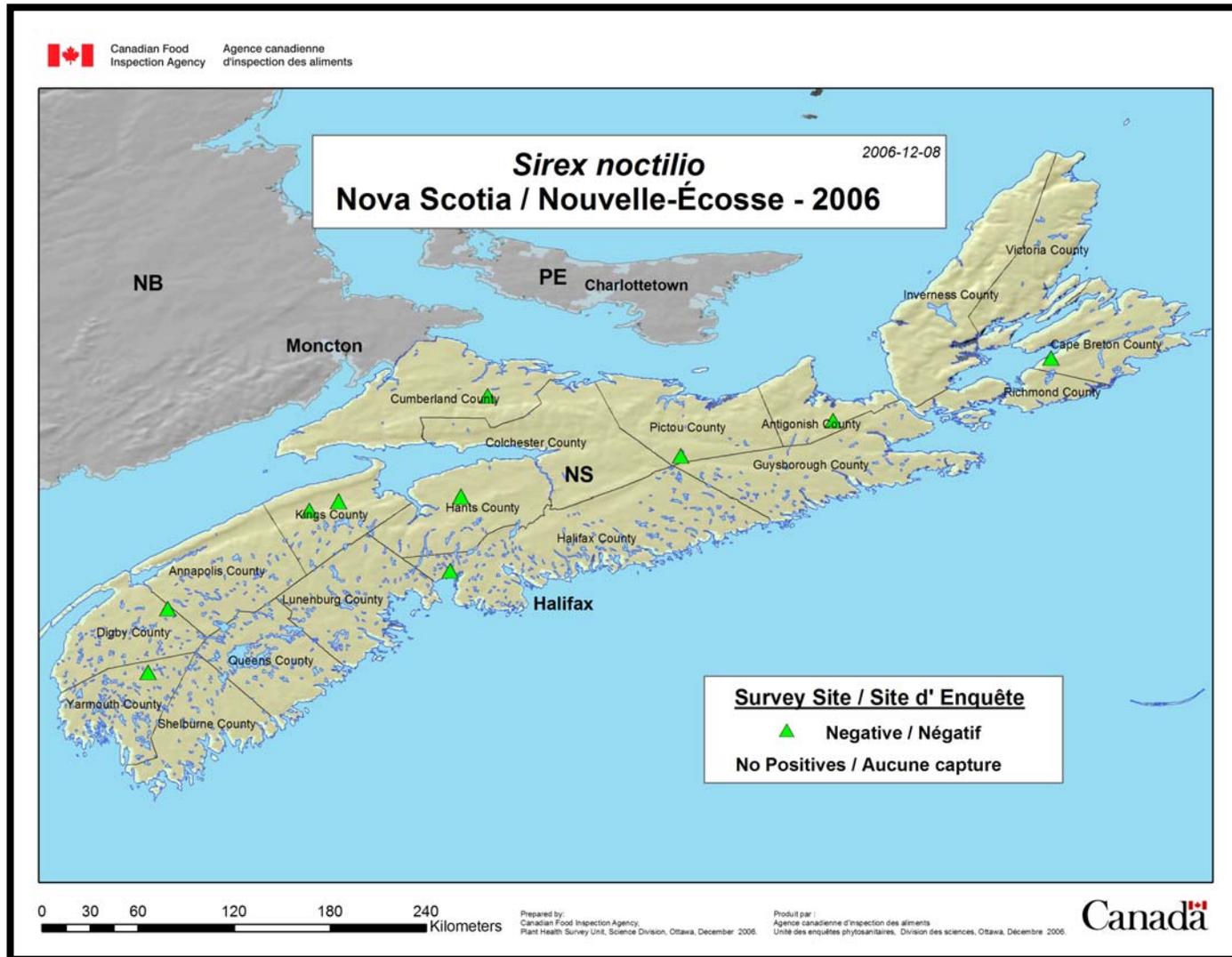


## 2006 survey for *S. noctilio* - Quebec

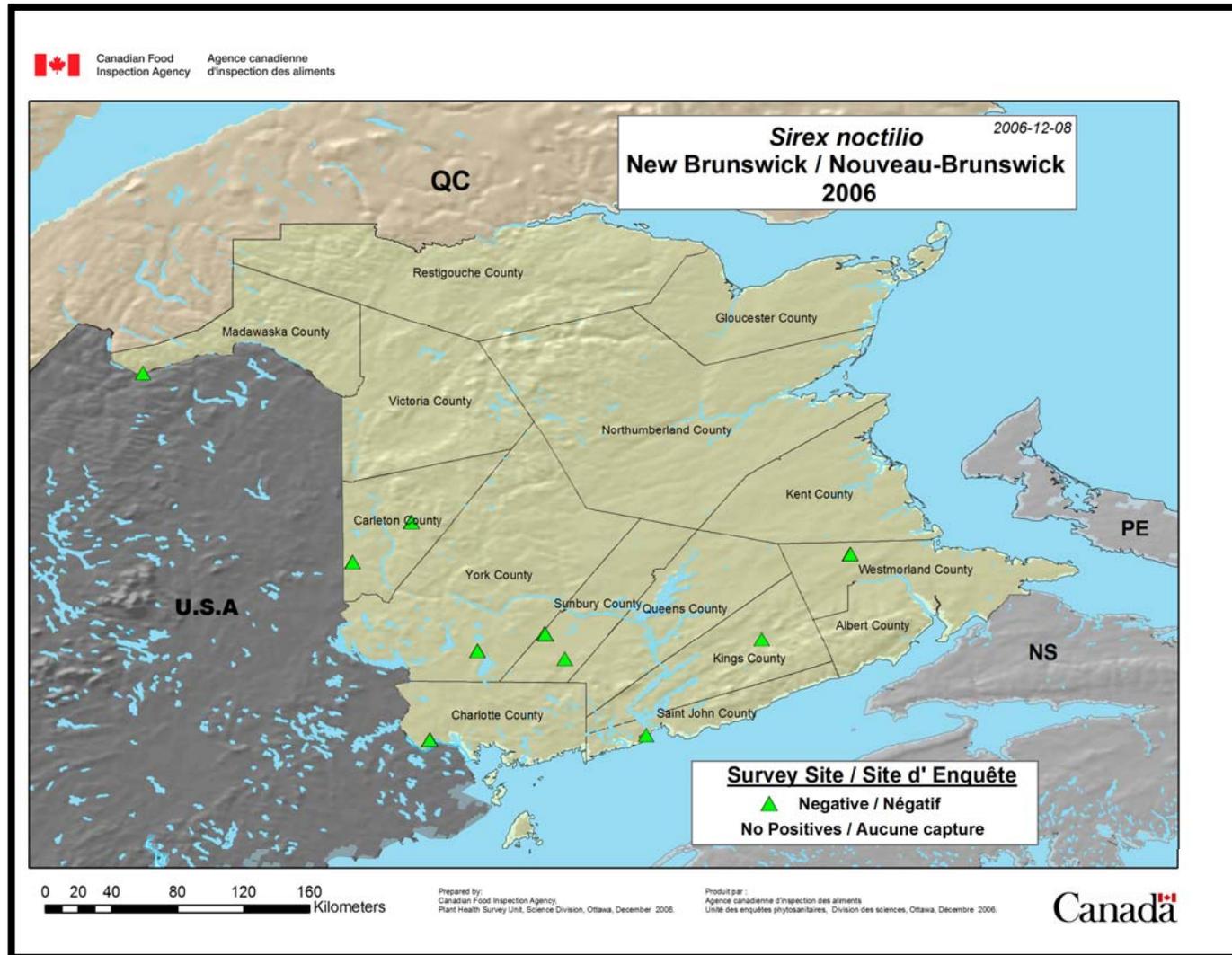
Species	Number
<i>Sirex noctilio</i>	0
<i>Sirex edwardsii</i>	18
<i>Sirex juvencus</i>	13
<i>Sirex nigricornis</i>	262
<i>Tremex columba</i>	1
<i>Urocerus cressoni</i>	177
<i>Urocerus albicornis</i>	24
<i>Xeris spectrum</i>	7



# 2006 survey for *S. noctilio* – Nova Scotia



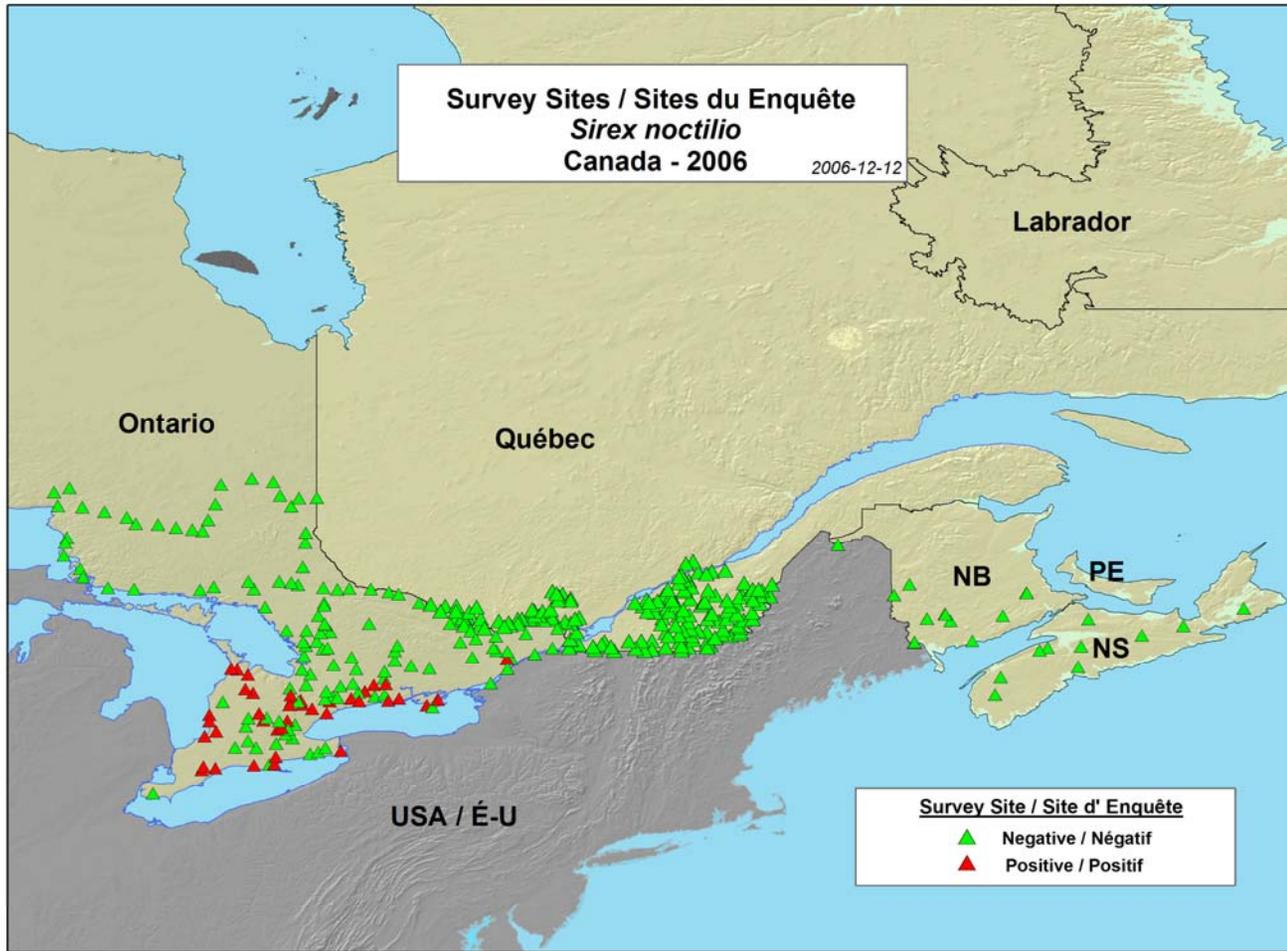
# 2006 survey for *S. noctilio* –New Brunswick





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Canadian Food Inspection Agency,  
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# Research

- Detection
- Ecology
- Management



# Research

## Detection ... building a better wasp trap

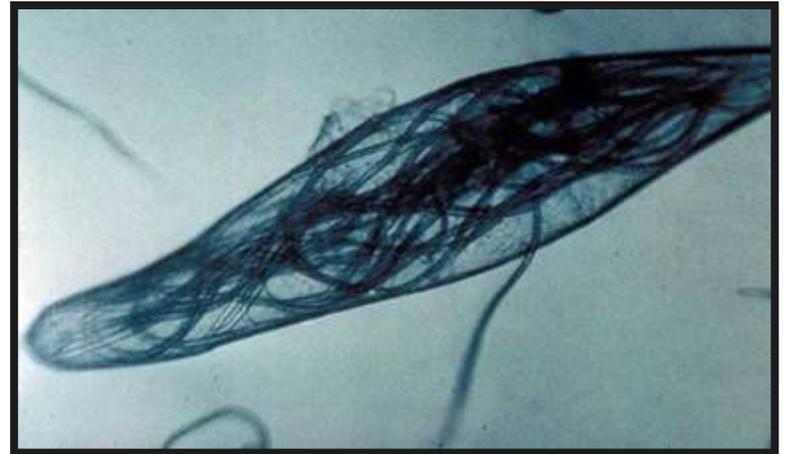
- Test insect and host produced attractants
- Test trap types including trap trees
- Determine best location within a tree and within the forest



# Research

## Ecology - Natural Enemies

- Is the nematode *Delandanus siricidicola* present in Canada, and if so, what strain?



- Is the fungus (*A. areolataum*) which sustains the parasitic nematode present in Canada?



# Research

## Impact and Spread



Spread Model – How does *S. noctilio* move through the landscape and how quickly does it spread?

# Outreach

Stakeholder meeting, September 20-21, 2006  
Ottawa, Ontario

- Participants

- Forest products industry association, Christmas tree, horticultural and nursery associations, woodlot members, Quebec Wood Export Bureau
- CFS, PMRA, AFN, AAFC, CFIA
- OMNR, QMRNF, NBDNR, OMAF, Conservation Ontario
- USDA, NYSDAM, NYDEC



# Outreach

## Stakeholder meeting (cont'd)

- Presentations

- Biology and Identification of *S. noctilio*
- Pest Risk Assessment
- Surveys
- Research Updates
- Biological Control

- Discussion break out session

- Regulatory options
- Management and Control options for the Forest Resource Base

# Recommendations

## Stakeholder meeting (cont'd)

- Cost Benefit assessment of regulating the movement of high risk pine commodities
- Cost Benefit assessment of implementing a biological control program
- Inventory Pathway Study
- Forest Products Certification program
- Continued research to address significant gaps
- Continued outreach

## In Summary....

- 2006 survey identified 37 sites in Ontario where *S. noctilio* was trapped, but none in Quebec, New Brunswick or Nova Scotia
- Research is underway with respect to the biology, ecology and detection, and the presence of the parasitic nematode
- Stakeholder meeting was held in September, and outreach program will be expanded
- The Sirex Management and Science panels will continue to work together so that the appropriate management strategies can be implemented

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